

- * Class will get to know each other, the teacher, and procedures (build community)
- * SWBAT use the scientific method to create an experiment, to be recorded in a Vee Chart.

Sep 6-2:31 PM

Welcome!!!
H. Leslie Grebe

SECA Physics
Monday 14 September 2015

- * Pick up
 - slip of paper

New people?



Opening Activity:

On your slip of paper:

- write something you've enjoyed about a science class in the past

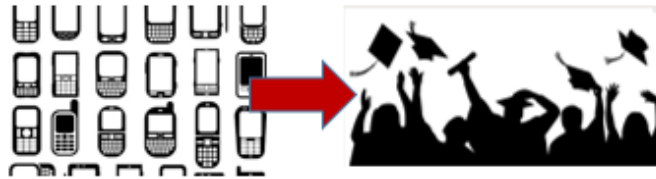
How was your weekend?

Centering

Sep 7-7:04 AM

PEDs with Passing

Centering



- **All students** start the quarter **passing**
- Grades are **always** current Mondays at 8:00 AM (maybe more often)
- Each DAY students can show on SchoolView that they are passing **this class**; then keep the phone with them in class as long as they are being RHR.
- Anyone not looking up grade or not passing **secures** PED before entering
 - Their locker,
 - Their backpack,
 - Or safe teacher lock-up spot
- Can retrieve them at end of class for use during passing time, break, lunch, ...

tiescloud.net/schoolview

Sep 10-7:39 AM

So, let's do some Physics!!! - NAME
- FAVORITE ICE CREAM

- Groups of 2-4 people
- Push a car and observe how far it goes
- List as many things as you can that affect how far the car will go when you push it

STRENGTH

FORCE - HARD/SOFT PUSH

SURFACE - SMOOTH/ROUGH

WHEELS LOOSE/SMOOTH

SIZE

WEIGHT

LEVEL OR TILT

OBSTACLES

DISTRIBUTION OF WEIGHT
BRAND/TYPE

Sep 8-7:32 AM

✓ FORCE: HARD/SOFT PUSH
GRAVITY: /HILLS
FLAT/BUMPY ✓ (SPACE AVAILABLE
↳ OBSTACLES)
OLD-GUNKY/RUSTY
SIZE OF CAR - MASS ✓, HEAVY ✓, VOLUME
FRICTION - TIRES & FLOOR - SURFACE ✓
AERODYNAMICS/AIR PRESSURE
LOOSE/TIGHT WHEELS & AXLE

Sep 14-10:42 AM

Notes...

Experiments: What's important?

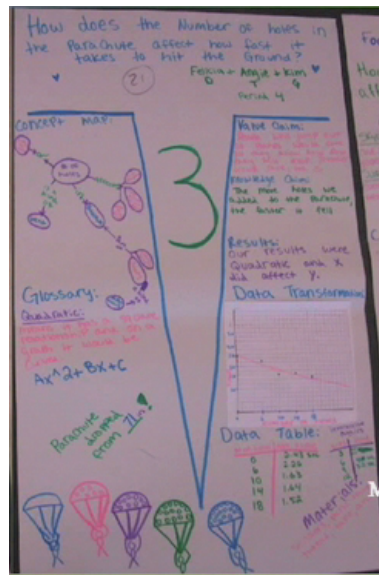
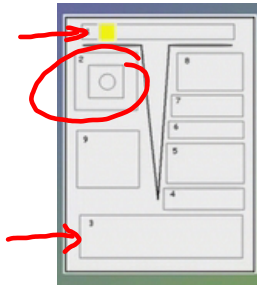
- Have a question about how changing something** affects something else
- Make an educated guess about the answer before starting
MORE INTERESTING IF PREDICTION IS WRONG
- Measure, quantify
- ** change only **ONE** thing!

Why?

ISOLATE THE CAUSE
→ UNDERSTAND

Sep 9-7:16 AM

The Vee Chart:
Shows what we found out from an experiment.



Sep 9-7:20 AM

① HOW DOES _____ AFFECT HOW FAR A TOY CAR GOES PAST THE END OF THE RAMP?

Our Set Up:

- * Pick a car
- * Let go from rest
- * Measure how far it goes past the end of the track
- * Pick one thing to change from the list below

② WE THINK...
BECAUSE...
WE'VE NOTICED...

USE RUBRIC

Things to change (pick one):

- Texture of driving surface [sand paper grit]
- Weight of car
- Height of release

Challenge: Bump in track?

Today... Parts 1-2:

- * Groups of 1-3.
- * Pick team name
- * Pick a question
- * Guess at the answer - explain

USE PENCIL

Sep 9-7:25 AM